

Amendments to the Claims:

This Listing of Claims replaces all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Original) An electric heating device having a substantially rod-shaped body and for applying heat from an end portion of the body to an outside material, the heating device comprising :

a heat generating member which is electrically energized to generate heat for heating the end portion of the body; and

a temperature sensor for detecting the temperature at the end portion, the temperature sensor being located distant from the heat generating member in the longitudinal direction of the body.

2. (Original) An electric heating device according to Claim 1, wherein the temperature sensor is located in a forward portion of the body, the heat generating member includes a heater core of high heat conductive material, and a heating coil wound around the heater core, and heat is conducted through the heater core in the longitudinal direction of the body from the heat generating member to the end portion of the body.

3. (Original) An electric heating device according to Claim 1, further comprising a heater lead wire connected with the heat generating member and extending within the body in the longitudinal direction of the body, and a sensor lead wire connected with the temperature sensor and extending within the body in the longitudinal direction of the body, each of the heater lead wire and the sensor lead wire having an exposed portion exposed to outside of the body to be electrically connected with an outside terminal.

4. (Original) An electric heating device according to Claim 3, further comprising a wire supporting member formed with a wire receiving hole for receiving a free end portion of the

heater lead wire or the sensor lead wire, and an opening for communicating the wire receiving hole with outside of the body to expose the exposed portion to the outside.

5. (Original) An electric heating device according to Claim 4, wherein a surface of the exposed portion of the heater lead wire or the sensor lead wire is treated to reduce contact resistance.

6. (Original) An electric heating device according to Claim 4, wherein the exposed portion is nickel-plated.

7. (Original) An electric soldering iron comprising:
a substantially rod-shaped body including a tip for applying heat from the tip to an electric part;
a heat generating member which is electrically energized to generate heat for heating the tip; and
a temperature sensor for detecting the temperature at the tip, the temperature sensor being located distant from the heat generating member in the longitudinal direction of the body.

8. (Original) An electric soldering iron according to claim 7, wherein the tip is made of a metal including copper or silver as its main component.

9. (Original) A handheld tweezer-type electric part handling device having a pair of legs, each leg having the structure of the electric heating device as claimed in claim 1.

10. (Currently Amended) A handheld device according to Claim 9, wherein the body and end portion are substantially straight and an included ~~[[angel]]~~ angle is between 10° and 14° when the legs are closed.

11. (Original) A handheld device according to claim 10, wherein the included angle is 12°.

12. (Previously Presented) An electric heating device having an elongated body with a first end and a second end capable of generating heat near the first end, the electric heating device comprising:

a heat generating member near the first end of the electric heating device capable of converting electric energy to heat;

a temperature sensor located closer to the first end than the heat generating member capable of detecting the temperature of the first end of the electric heating device; and

a lead wire communicatably coupled to the temperature sensor for transmitting the detected temperature to a control device, where at least a portion of the lead wire is between the temperature sensor and the heating along the longitudinal direction of the electric heating device providing a predetermined distance between the temperature sensor and the heat generating member along the longitudinal direction.

13. (Previously Presented) An electric heating device according to Claim 12, where the temperature sensor is located in a forward portion of the body, the heat generating member includes a heater core of high heat conductive material, and a heating coil wound around the heater core, and heat is conducted through the heater core in the longitudinal direction of the body from the heat generating member to the first end of the body.

14. (Previously Presented) An electric heating device according to Claim 12, further comprising a heater lead wire connected with the heat generating member and extending within the body in the longitudinal direction of the body, and a sensor lead wire connected with the temperature sensor and extending within the body in the longitudinal direction of the body, each of the heater lead wire and the sensor lead wire having an exposed portion exposed to outside of the body to be electrically connected with an outside terminal.

15. (Previously Presented) An electric heating device according to Claim 14, further comprising a wire supporting member formed with a wire receiving hole for receiving a free end portion of the heater lead wire or the sensor lead wire, and an opening for communicating the wire receiving hole with outside of the body to expose the exposed portion to the outside.

16. (Previously Presented) An electric heating device according to Claim 15, where a surface of the exposed portion of the heater lead wire or the sensor lead wire is treated to reduce contact resistance.

17. (Previously Presented) An electric heating device according to Claim 15, where the exposed portion is nickel-plated.

18. (Previously Presented) An electric heating device having a first end and a second end and capable of generating heat near the first end, the electric heating device comprising:

means for sensing temperature near the first end away from a heat generating member along the longitudinal axis of the electrical heating device; and

means for conducting power through the second end and transferring the power to the heat generating member.

19. (Previously Presented) An electric heating device having an elongated body capable of generating heat near a first end, the electric heating device comprising:

means for minimizing drop in temperature near the first end during successive soldering operations.

20. (Previously Presented) The electric heating device according to claim 19, where the means includes a sensor positioned near the first end at a predetermined distance from a heat generating member along the longitudinal axis of the electrical heating device.